

Review of: "The Emergence of Consciousness in a Physical Universe"

Constantin Dina

Potential competing interests: No potential competing interests to declare.

I congratulate the author for his dedication and the volume of information provided, and I appreciate the innovative approach. However, while the article outlines a unique perspective on consciousness, it lacks a detailed comparison with other theories or models. I think that a more comprehensive analysis of how this model contrasts with or complements existing theories could provide a clearer understanding of its significance.

The proposed testable predictions are intriguing, but the document does not provide enough methodological detail on how these experiments could be conducted, and offering more specific experimental designs or methodologies could help in evaluating the feasibility and potential impact of these predictions.

Although the article attempts to bridge neuroscience, cognitive science, and information theory, it could benefit from a broader interdisciplinary approach. Incorporating insights from psychology, philosophy of mind, and computational modelling might enrich the discussion and address aspects of consciousness that are currently underexplored, and engaging with these disciplines can deepen the understanding of consciousness, particularly in areas like subjective experience, the role of consciousness in decision-making, and the integration of conscious processes across different states of awareness.

On the other hand, the author's definition of consciousness, positing it as inherently related to the structured or integrated semantics of object relations, is an innovative approach. It emphasizes a functional and relational perspective, suggesting that consciousness arises from the way objects are perceived and related to each other in a semantic network. This perspective is valid in the sense that it offers a fresh new perspective through which to examine consciousness, aligning with theories that view consciousness as an emergent property of complex systems. However, its validity would ultimately depend on empirical support and its ability to integrate with or enhance existing theories of consciousness. The challenge lies in operationalizing this definition to make it testable and in demonstrating how it accounts for the subjective experience of consciousness.

Lastly, the article could elaborate more on the practical implications of its model for developing artificial consciousness or enhancing our understanding of neural processes. Discussing potential applications and limitations in real-world scenarios would make its contributions more tangible.

Qeios ID: PM5UG7 · https://doi.org/10.32388/PM5UG7